IN THE CLAIMS:

- 1. (Original) A material composition comprising:
- a first component having a monomer portion and at least one cationically polymerizable functional group;
- a crosslinker reactive with said first component and comprising at least three cationically polymerizable functional groups; and

a cationic photoinitiator.

- (Original) A material composition as set forth in claim 1 wherein said first component comprises two cationically polymerizable functional groups.
- 3. (Original) A material composition as set forth in claim 1 wherein said monomer portion of said first component is an organic monomer selected from the group of aryl, norbornane, and combinations thereof.
- 4. (Original) A material composition as set forth in claim 1 wherein said monomer portion of said first component is an organosilicone monomer containing (SiR₂O) or (SiRO_{3/2}) units, wherein R is hydrogen, a methyl group, a phenyl group, a hydrocarbon, or a fluorocarbon group.
- (Original) A material composition as set forth in claim 1 wherein said cationically polymerizable functional group of said first component is selected from the group of epoxy functional groups, vinyl ether functional groups, and combinations thereof.

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 (Original) A material composition as set forth in claim 1 wherein said first component is

- (Original) A material composition as set forth in claim 1 wherein said crosslinker comprises four cationically polymerizable functional groups.
- (Original) A material composition as set forth in claim 1 wherein said crosslinker comprises silicone.
- 9. (Original) A material composition as set forth in claim 1 wherein said cationically polymerizable function groups of said crosslinker are selected from the group of epoxy functional groups, vinyl ether functional groups, and combinations thereof.
- 10. (Original) A material composition as set forth in claim 1 wherein said crosslinker is

$$\left[\begin{array}{c} CH_3 \\ Si \\ CH_3 \end{array}\right]_4 S$$

- 11. (Original) A material composition as set forth in claim 1 wherein first component and/or said crosslinker are the reaction product of 4-vinyl-1-cyclohexane-1,2epoxide and an SiH-functional silicone compound.
- 12. (Original) A material composition as set forth in claim 1 wherein said cationic photoinitiator comprises an active cationic species and an anionic species, with said cationic species comprising an onium salt.
- 13. (Original) A material composition as set forth in claim 12 wherein said onium salt is a diaryliodonium salt, a triarylsulfonium salt, or a tetraaryl phosphonium salt and said anionic species is selected from the group of BF_a", PF₆", AsF₆", SbF₆", and (C₆F₅)_aB".
- 14. (Original) A material composition as set forth in claim 1 wherein said first component is present from 90-98 parts by weight, said crosslinker is present from 1-9 parts by weight, and said cationic photoinitiator is present from 0.1-2 parts by weight, all based on 100 parts by weight of said material composition.
- 15. (Original) A material composition as set forth in claim 1 further comprising a non-reactive diluent for reducing a viscosity of said material composition.
- 16. (Original) A material composition as set forth in claim 1 wherein said non-reactive diluent is selected from the group of PGMEA, PGME, 2-heptanone, xylene, and combinations thereof

(Cancelled)

18. (Original) A material composition as set forth in claim 1 wherein;

said first component comprises two epoxy functional groups and said monomer portion of said first component is an organosilicone monomer; and

said crosslinker comprises silicone and four epoxy functional groups,

- 19. (Original) A material composition as set forth in claim 1 wherein said composition is applied on a substrate to form a film by spin-coating, dip-coating, or spraycoating.
- (Original) A material composition as set forth in claim 1 wherein said composition is applied on a substrate as liquid droplets prior to contact printing.
- 21. (Original) Use of the material composition of claim 1 in nanoscale contact printing, nanoimprint lithography (NIL), microimprint lithography, UV-assisted nanoimprint lithography, Step-and-Flash Nanoimprint Lithography (S-FIL), and combined-nanoimprint-and-photolithography.
- 22. (Original) Use of the material composition of claim 1 in a tool selected from the group of contact aligners, nanoimprinters, bonding machines, and presses.
- 23. (Original) Use of the material composition of claim 1 at temperatures between 0 and 100°C and/or at pressures less than 10 atmospheres.
- (Currently Amended) A cured resist film comprising the reaction product of the material composition of claim 1.[f:]]

a first component comprising a monomer portion and at least one cationically polymerizable functional group;

a_crosslinker_reactive_with_said_first_component_and_comprising_at_least_three eationically-polymerizable-functional_groups; and

a cationic photoinitiator.

25-34. (Cancelled)

35. (Original) A cured resist film as set forth in claim 24 of the general formula;

36. (Currently Amended) An article comprising:

a substrate layer; and

- a resist layer formed on said substrate layer and comprising the reaction product of the material composition of claim 1.[[:]]
- a first component comprising a monomer portion and at least one cationically polymerizable functional group;
- a_crosslinker_reactive_with_said_first_component_and_comprising_at_least_three cationically-polymerizable functional_groups; and

a cationic photoinitiator.

- (Original) An article as set forth in claim 36 wherein said substrate layer is formed from silicon or glass.
- 38. (Original) An article as set forth in claim 36 further comprising an undercoating layer disposed between said substrate layer and said resist layer.
- (Original) An article as set forth in claim 38 wherein said undercoating layer is formed from a polymer.
- (Original) An article as set forth in claim in claim 39 wherein said polymer comprises poly(methyl methacrylate).
 - 41-50. (Cancelled)